# SECTION B2000

# EXTERIOR CLOSURE

# 06/02

## PART 1 GENERAL

### 1.1 SYSTEM DESCRIPTION

Provide a masonry, masonry and steel, or reinforced concrete exterior closure system. A pre-engineered metal building system is prohibited, unless specifically required in the RFP.

### 1.2 SYSTEM REQUIREMENTS

a. Prevention of moisture intrusion and blending with base architecture are prime considerations. Comply with the Base Exterior Architecture Plan ( BEAP ), a copy of which may be acquired from the Contracting Officer.

b. Exterior design must be compatible with the existing [_name of specific existing facility_] located near site of the new facility to be provided under this RFP. Exterior finishes shall be complementary to those materials used on the adjacent [_name of specific existing facility _] facility to form a unified and complementary architectural appearance.

[ c. Parapets and copings are prohibited; therefore, no portion of the facade of the new facility shall penetrate or project above the roof surface. ]

d. Optimize natural daylighting of occupied spaces. [ Minimum exterior glass area [ shall be _____ square meters ] [ shall be 2.3 square meters ].]

### 1.3 CRITERIA

a. Comply with Southwest Division “Technical Guides for Exterior Enclosure Systems” and with Southwest Division “Technical Guide for Roofing Systems”, which may be viewed at the following internet websites:

SWDIV Exterior Enclosure Systems Technical Guide

SWDIV Roofing Systems Technical Guide

## PART 2 - PRODUCTS

### 2.1 EXTERIOR WALLS ( B2010 )

#### 2.1.1 Exterior Wall Construction

a. Provide methods of expansion control, reinforcing, and joint sealers installed in accordance with the manufacturer's recommendations. Set finish floor level at least [ 10 inches ][ 150mm ] above adjacent finish grade or impervious surfaces.

1) Acceptable construction includes:

a) Exterior skin, cavity wall, and CMU backup.

b) Exterior skin, air space and sheathing/steel stud/wallboard backup.

c) [ _____. ]

2) Exterior bearing walls consisting of metal studs as the primary floor or roof supporting structural element are not permitted.

b. Provide control joints and installation techniques recommended by the manufacturer of the materials and systems utilized in the project.

**2.1.2 Exterior Wall Exterior Skin**

[ a. Skin material shall be [ face brick ][ concrete masonry units ][ precast architectural concrete ] with accents to blend with the existing base architecture and to comply with the Base Exterior Architecture Plan ( BEAP ). Special patterns, coursing, and/or materials may be used to create a distinctive ground floor facade and residential scale. Where moisture intrusion and moisture damage may occur, use proven for control of moisture intrusion and efflorescence. ]

[ b. Metal panels. ]

[ c. Steel wall panels; maximum deflection due to wind on wall panels and girts shall be limited to 1/120 of their respective spans, except that when interior finishes are used the maximum allowable deflection shall be limited to 1/180 of their respective spans. ]

**2.1.3 Brick [ Split Face Brick ]**

Provide nominal standard grade [ SW ][_____], type [ FBS ][_____] [ face ] [ _____ ] brick conforming to ASTM C216.

**2.1.4 Concrete Masonry Units [ Split Face Concrete Masonry Units ]**

Provide hollow [ load-bearing units: ASTM C90 ],[ non-load bearing-units: ASTM C129 ], Type [ I ][ or ][ II ].

**2.1.4 PORTLAND CEMENT STUCCO**

Provide complete three stage installation, including scratch, brown and finish coats with adequate expansion joints to prevent cracking. Finish shall be [ sand textured ][ smooth ][ knock down ][ Spanish Lace ][ ____ ].

**2.1.5 Exterior Railings**

Provide complete railing systems at balconies and stairs in full compliance with handicapped requirements included by reference in this RFP. Comply with code minimums relative to railing designs. Tolerances in openings between rails will only be accepted where the space is smaller than required by the code. Spaces larger than allowed by the building code are not acceptable. Fasten and positively anchor railings to the structure to bear the minimum loading required by the Building Codes. Provide expansion

joints to allow expansion and contraction of the railings due to thermal heating and cooling where exposed to the exterior environment.

### 2.1.6 Exterior Wall Moisture Barrier, Air Space, And Insulation

Exterior wall systems, including insulation products shall have a minimum R value of [ ___ ].

### 2.1.6 Exterior Wall Interior Skin

Provide hard, durable, cleanable surfaces.

### 2.1.7 Exterior Louvers And Grilles

Provide louvers where required to support building venting and ventilating systems. Louvers may be steel, painted galvanized steel, unpainted galvanized steel, stainless steel, factory finished painted or powder coated aluminum or uncoated aluminum. Do not use uncoated aluminum in corrosive environments in the desert or near the ocean salt air. Field painting of aluminum to prevent corrosion is not acceptable. See Paragraph 2.2 below.

### 2.1.8 Exterior Soffits, Fascia, And Other Trimwork

Exterior soffits, fascias and other trimwork shall be designed and constructed of long lasting, durable materials, that minimize frequent maintenance and refinishing. Exposed sheet metal trim in concealed locations and on roofs may be galvanized steel, but must be primed and finish painted.

## 2.2 EXTERIOR EXTRUDED ALUMINUM WINDOWS AND STOREFRONT SYSTEMS ( B2020 )

Exposed aluminum surfaces shall be factory finished with an [ anodic coating conforming to AA 45 ][ or ][ organic coating conforming to [ AMMA 603.8 ][ AAMA 605.2 ]. [ Provide exterior window cleaning bolts. ]

## 2.3 EXTERIOR DOORS ( B2030 )

### 2.3.1 Personnel Doors

[ Provide primed and finish painted hollow metal doors and frames at exterior walls. ] [ Provide factory finished storefront system aluminum doors and frames at exterior walls. See Paragraph 2.2 above. ] Interior doors shall be solid core wood doors in hollow metal frames. Knock down frames are not acceptable. Doors and frames in rated walls shall have appropriate ratings in accordance with the building codes and the Life Safety Code.

Provide a recessed key box approximately [ 7 inches x 7 inches ] [ 18cm x 18cm ]with [ 4 ¾ inches ] [ 12mm ] solid steel door [ at primary exterior entry ] for storage of keys and/or access cards accessible by the fire department.

### 2.3.2 Overhead Doors

Provide coiling overhead doors with thermal insulated slats, electric operators with 3-button switches, weather-stripping and windlocks. Doors shall be capable of withstanding the design wind loading of ASCE 7-95.

## PART 3

Not Used.

**--END OF SECTION--**